

**MSDS #GGC-12, #GGC-6 SWOOSH CO2 Cartridge**

**SECTION 1: IDENTIFICATION**

**Product Name:** Swoosh CO<sub>2</sub> Cartridges

**MANUFACTURED FOR:** Diversitech, Inc

**ADDRESS:** 2530 Lantrac Court, Decatur, GA 30035

**PHONE NUMBER:** 800-255-3924 Chem-Tel (Chemical Emergencies Only)

**PHONE NUMBER (For Information):** 800-995-2222

**DATE REVISED:** 5/5/2004

**PREPARED BY:** Anthony Jernigan

**SECTION 2: HAZARDOUS INGREDIENTS INFORMATION**

INGREDIENT	CAS NO	OSHA PEL	ACIGH TLV	OTHER STEL	%
Carbon dioxide	124-38-9	5000 ppm	3000 ppm		~100

**SECTION 3: HAZARD IDENTIFICATION**

**Emergency Overview:** Colorless odorless gas. Contact with desublimed solid may cause frostbite. This product is nonflammable. Breathing high concentrations of vapors may produce drowsiness and a headache.

**Potential Health Effects:**

**Eyes:** Contact with desublimed solid may cause frostbite.

**Skin:** Contact with desublimed solid may cause frostbite

**Ingestion:** Unlikely. Contact with desublimed solid may cause frostbite.

**Inhalation:** High concentrations of vapors in immediate area can displace oxygen and can cause dizziness and unconsciousness. Use with adequate ventilation.

**Pre-Existing Medical Conditions Aggravated by Exposure:** Heart, lung, skin, eye.

**SECTION 4: FIRST AID MEASURES**

**Eyes:** Treat for frostbite immediately. Have eyes examined and tested by medical personnel if irritation develops or persists.

**Skin:** Treat for frostbite immediately. Get medical attention if irritation develops or persist.

**Ingestion:** Not a possible route of entry.

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**SECTION 5: FIRE FIGHTING MEASURES**

**Flash Point:** None to boiling (TCC) **LEL/UEL:** Nonflammable

**Extinguishing Media:** Use extinguishing media as suitable for the combustible materials involved in the fire.

**Fire Fighting Instructions:** As in any fire, wear self-contained breathing apparatus (pressure-demand, MSHA/NIOSH approved or equivalent) and full protective gear.

**Unusual Fire and Explosion Hazards:** Contents under pressure. Do not store near heat sources.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Large Spills:** Shut off leak if possible and safe to do so. Wear self-contained breathing apparatus and appropriate personal protective equipment. Allow condensed solid to sublime.

**Small Spills:** Allow condensed solid to sublime.

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### **SECTION 7: HANDLING AND STORAGE**

Avoid prolonged or repeated contact with eyes, skin, and clothing. Wash hands before eating. Protect cartridges from abuse, and extreme temperatures. Keep this product out of the reach of children. Do not puncture cartridge unless it is contained in an approved appliance. Do not attempt to refill spent cartridges. Maintain a well-ventilated work area; use with adequate ventilation. Avoid breathing product vapor or mist. Store in a cool dry place, away from heat, sparks, flame and direct sunlight.

### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **Exposure Guidelines:**

<b>CHEMICAL NAME</b>	<b>ACGIH TWA</b>	<b>OSHA PEL</b>	<b>ACGIH STEL</b>
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Carbon Dioxide	5,000 ppm	5,000 ppm	30,000 ppm
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**Work/Hygienic Practices:** Good general ventilation should be sufficient to control airborne levels. Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product. Wear safety glasses with side shields (or goggles) and rubber, neoprene or other chemically resistant gloves if there is documented evidence of compatibility when handling this material.

#### **NFPA and HMIS Codes:**

	<b>NFPA</b>	<b>HMIS</b>
Health	1	1
Flammability	0	0
Reactivity	0	0
Personal Protection - B		

### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Physical State: Colorless gas	Solubility in Water: Very Soluble
Odor: Slight ethereal	Specific Gravity: (Water =1) 1.53
pH: NA	Evaporation Rate: >1 (Butyl acetate=1)
Vapor Pressure: 856 psia @ 70 F	Vapor Density: 1.65 @ 70°F (Air = 1)
Viscosity: NA	Percent Volatile: 100%

### **SECTION 10: STABILITY AND REACTIVITY**

**Stability:** This product is stable. Conditions to Avoid: None known

**Incompatibility:** None known      **Products of Decomposition:** None known

**Hazardous Polymerization:** Will not occur      **Conditions to Avoid:** NA

### **SECTION 11: TOXICOLOGICAL INFORMATION**

#### **Inhalation:**

Carbon Dioxide: LCLo/human      9ppm/5 min

**Cancer Information:** No ingredients listed as human carcinogens by NTP or IARC

**Reproductive effects:** none

**Teratogenic effects:** none

**Mutagenic effects:** none

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### **SECTION 12: ECOLOGICAL INFORMATION**

**Environmental Impact Information:** No sufficient effect known from discharge of gas or desublimed solid.

#### **Environmental Impact Data**

**REPORTING** (percent by weight):

CFC 0.0% VOC 0.0%; HFC 0.0% HFC 0.0%; Cl. Solv. 0.0% ODP 0.00

US regulations require reporting spills of this material that could reach any surface waters. The toll free number for the US Coast Guard National Response Center is: **800-424-8802**.

### **SECTION 13: DISPOSAL CONSIDERATIONS**

Dispose of in accordance with all federal, state and local regulations.

### **SECTION 14: TRANSPORTATION INFORMATION**

<b>Proper Shipping Name</b>	<b>UN Number</b>	<b>Class</b>	<b>Sub. Pkg. Risk</b>	<b>Hazard Group</b>	<b>Pkg. Max. Instr. Quantity</b>
<b>Air:</b> Carbon Dioxide	UN 1013	2.2	NA	NA	Non-flammable 200 75kg;150kg. Gas
<b>Ground:</b> Consumer Commodity, ORM-D	NA	ORM-D	NA	NA	ORM-D Pkg. Auth. 173.306

### **SECTION 15: REGULATORY INFORMATION**

#### **SECTION 313 SUPPLIER NOTIFICATION**

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372): None

**TOXIC SUBSTANCES CONTROL ACT (TSCA):** All ingredients of this product are listed on the TSCA Inventory.

**WHMIS:** Class A

This product is classified according to the hazard criteria of the CPR, and the MSDS contains all of the information required by the CPR.

#### **EEC:**

Supply Classification: Not Listed

Hazard Pictogram: None

Risk Phrases: R-20 Harmful by Inhalation

Safety Phrases: S-2 Keep out of reach of children

S-47 Keep at temperatures not exceeding 49 degrees C

S-57 Refer to supplier for information on recycling

### **SECTION 16: OTHER INFORMATION**

Do not puncture or incinerate containers. Normal ventilation for standard manufacturing practices is usually adequate. Local exhaust should be used when large amounts are released.

**REFERENCES:** 29 CFR 1910.1200 40 CFR 300-700 ANSI Z400.1-1998; EEC Dangerous Substances Classification, Packaging and Labeling List (Annexes 1, 2, 3 & 4)

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